

ABSTRACT

The filter device is utilised for the separation of undissolved solid substances from liquids, in particular in the fields of waste water purification and water treatment. Said filter device is arranged in a container as capable of rotation (2) and surrounded by the liquid to be filtered. The filter device (1) consists of several filter elements (6) with a space between one another, which are combined to form a rotating filter. The filtrate is drained away at the periphery of the filter elements (6). The objective of the invention is to prevent solid substances from adhering to the filter elements (6) during the filtering process. This is achieved by the fact that the rotating filter comprises a hollow space in the centre and that an aeration device (8) is arranged in the hollow space, around which the filter device rotates. The filters are continuously cleaned by the mixture of air and liquid flowing through during the filtering process.

(Figure 3)